

PLANT ENGINEERING AND RECORD SYSTEM

PURPOSE: The purpose of this addendum is to set forth suggested specifications for paper with satisfactory characteristics to be used in the commercial printing of the functional record forms introduced in Section 116, Issue No. 1 dated December 1965.

ADDITIONS: The following standards apply to the blank forms shown in Exhibits A, B, C, and D in Section 116, Issue No. 1, December 1965.

REQUIREMENTS: INDEX PAPER
25 PERCENT RAG
COLOR - BUFF - OPTIONAL
SUBSTANCE - (BASIS 25-1/2 x 30-1/2 IN.) - 220 POUNDS
THICKNESS - (APPROXIMATELY) - SINGLE SHEET, 0.0085 INCH;
1000 SHEETS, 8.5 INCHES
OPACITY - TEXT, ETC., E; HALF TONES, SOLIDS, ETC., E.
INK - GREEN - OPTIONAL

USAGE: The four forms referred to above are to be 8 $\frac{1}{2}$ " x 14" outside measurements, and are proposed only as the office master copies. It is intended that additional copies (work copies) be reproduced from the periodically updated master copies on local office reproduction machines.

PLANT ENGINEERING AND RECORD SYSTEM

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EXHIBITS A, B, C, D, E
EXAMPLE: Pages 1 - 12

1. GENERAL

1.1 This section is to provide REA borrowers, consulting engineers, contractors, and other interested parties with information for use in the design, construction, and operation of REA borrowers' telephone systems. It discusses, in particular, considerations in the use of a flexible numbering system for all outside plant facilities and the adoption of a new concept in plant records prepared in a complete packet, designed particularly for circuit-by-circuit engineering of buried or aerial plant, and which is applicable to all types of outside plant facilities.

2. SCOPE

2.1 The intent is to provide engineering methods and a recording system having broad capabilities as follows:

2.11 Facilitate circuit-by-circuit design and cable pair allocation during the interval between partial completion of the detail maps, staking sheets, cable schematics, and actual cut-over of the exchange or portion of an exchange.

2.12 Provide flexibility of plant by means of advance engineering allocation of cable pairs (designated by home count assignments -- see TE & CM 628, "Cable Plant Layout.")

2.13 Insure that transmission design criteria relative to bridge tap length, outer end sections, loading, etc., are met and controlled during staking, construction, at cutover, and throughout the subsequent operation of the system.

2.14 Provide a method keyed to all establishments in the exchange area rather than being limited to the existing, signed, and chosen A, B, C, potential. It will furnish means whereby subscriber development and resulting future plant requirements may be accurately determined with a minimum of plant reinforcement and rearrangement. Any establishment may be readily located for existing or future service needs.

2.15 Provide a sequential outside plant numbering system directly related to establishment location with respect to a pedestal, terminal, or pole, and route mile distance from the central office.

2.16 Provide a procedure that is not directly related to one type of plant, i.e., aerial, buried, underground, open wire, etc., and can be used on any system regardless of size. It will list essential data for every subscriber loop and interoffice trunk in the system.

2.17 To establish a well defined and workable method that may be effectively used during construction of the system to direct splicing, termination of pairs, installation of drops, loading, pair assignment, home count allocation, control of line fill, and to substantially reduce the requirements for using staking sheets and cable schematics for these activities. It will also provide a record of dead pairs, cut pairs, unused pairs, and working pairs, and denote the specific function of every exchange loop.

2.13 Provide working records (inside and outside plant facilities) that may be reproduced on local machines ($8\frac{1}{2}$ " x 14") for functional use by field personnel, especially those not operating directly out of a main control center. The recording capacity per page over existing record forms is materially increased.

1. THE NUMBERING SYSTEM

1.1 The rapid development of buried plant and its associated electronic components has created a need to update the methods employed for outside plant identification and location. The practice of attempting to locate a buried plant pedestal by identifying it as so near or so far from some rural house or barn is antiquated. A numbering system is needed where the permanent plant location is fixed, is controlling, and the establishment is related to the known pedestal location. The numbering system presented herein meets the following objectives:

- a. Is adaptable to all types of outside plant facilities, i.e., manholes, pedestals, aerial terminals, poles.
- b. Has a minimum and fixed number of characters.
- c. Requires a minimum of changes for plant expansion or rearrangements.
- d. Provides accurate location information for operations and maintenance personnel.
- e. Is easy to administer and record.

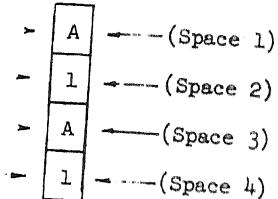
1.2 The numbering system consists of four characters: (1) a letter for cable, (2) a numeral for control point, (3) a letter for route, and (4) a number for manhole, pedestal, terminal, or pole. Pedestals, poles, etc., between two control points always count consecutively 1, 2, 3, etc., with no omissions.

CABLE LETTER

CONTROL POINT NUMBER

ROUTE LETTER

SECTION PEDESTAL OR POLE NUMBER



3.21 Space 1 is always a letter. Cables from the central office are identified A, B, C, etc., generally from a point north, clockwise around the central office.

3.22 Space 2 is always one or two numerals (1-99) except those facility identifications between the central office and the first control point which will have a dash (A-1) in this second space. Control points and load points are the exact same locations; the control points are established and carried throughout a cable even if no loading is required. Control points are also established on open wire leads. The spacing is made to coincide with the choice of loading system, i.e., D66 = 4.5 kf, H88 = 6.0 kf, etc., or if necessary a combination of loading systems.

3.23 Space 3 is always a letter A, B, C, etc. Laterals not containing a control point are treated numerically as a part of the main route. When laterals extend beyond a control point, they are assigned the next available route letter designation.

3.24 Space 4 is always one or two numerals (1-99) except when the pedestal is a control point; then this space will have a dash (A1A-). This dash can only occur when there is a numeral in space 2.

3.3 Since loading system sections are 4,500 feet (or 6,000 feet in length in older patterns), it may be assumed, for operational location purposes, that control points occur at roughly one mile intervals (5,280 feet); i.e., a maintenance man looking for pedestal A5A1 would know it was cable A, 5th control point from central office (approximately 4.5 miles), route A, and the first pedestal beyond the 5th control point (A5A-).

3.4 The numbering system will accommodate 26 separate cables from one central office; 99 control points on any given route; 26 separate routes on a given cable; and 99 pedestals, terminals, or poles between any two control points along the route. With this flexibility and potential, it should not be necessary to deviate from the plan.

3.5 The identifying characters used on pedestals and terminals should be at least one-inch, bright colored, weatherproof, and on a dark background. The top six-inch portion of control point housings may be treated with pressure sensitive, weatherproof material of a bright color for easy identification. Control point pedestals should be kept clear of undergrowth and be easily seen from the roadway.

3.6 The numbering system, when supported by a simple directional plant diagram (See Example - Page 1), provides ready location for any desired pedestal, pole, etc., in an exchange.

4. ENGINEERING APPLICATION

4.01 The Outside Plant Facility Record (OPFR) (Exhibit B) is presented for use to fill the needs set forth in paragraph 2. After the initial grouping of establishments to subscriber lines in the design procedure, the cable sizing and reduction points are tentatively located and posted on the ACD maps and/or detail maps. This data is made firm as staking progresses, along with the exact location of load (control) points and sectional pedestals. It is at this time period that the final circuit-by-circuit design engineering and the pair-by-pair allocations should be started and initial use of the Outside Plant Facility Record employed.

4.02 Where the initial engineering phases of cable loading are done on the ACD or detail maps, the pedestal numbering system is applied, and when stabilized during staking, it is entered on the Outside Plant Facility Record. The numbering is applied to manholes, pedestals, terminals, and certain poles. On long sections of open wire pole line, it generally is necessary to enter only those pole numbers at control points and where laterals or drops are separated.

4.03 The first step is to study the general layout of each cable leaving the central office.

Keep in mind that the Outside Plant Facility Record is arranged to accommodate up to 50 cable pairs or any fraction thereof. Cables are therefore viewed in 50-pair segments within their distribution area (from the pedestal where a 50-pair cable emerges from a larger cable to the out or field end of all loops within that 50-pair count). Any manholes, pedestals, terminals, or poles between the reduction point pedestal and the central office that have loading or other plant components relating directly to the 50-pair count being studied must also be considered, and they are necessarily shown on the Outside Plant Facility Record. (Example Pages 4 and 6.)

4.04 When the pedestal numbering has become firm, all establishment numbers are related to their respective pedestal, etc., and listed on the Outside Plant Facility Record. The plant facility layout portion of the OPFR is then prepared. Laterals are shown as leaving the main route either right or left with back to central office. Reduction points, facility type, size, gauge and pair counts are shown. A space is left following the "pulloff" of a lateral and another space left beyond the end of the lateral. This is to facilitate the entries on the lower portion of the sheet. An arrow is drawn in the open space to indicate if the lateral is right or left from main route.

4.05 The 50-pair cable count, or fraction thereof, is entered in the cable pair column along the left side of the sheet. The control points are drawn in. It is essential to know exactly what cable pairs are to be loaded at a given load (control) point. The symbols are then filled in with pencil to represent loaded cable pairs.

4.06 Distance is not relative to the Outside Plant Facility Record, and is only determined by the number of pedestals, etc., recorded. The pedestal-to-pedestal sectional footages and the accumulated control point kilofeet are not entered until the "as built" measurements are available from the staking sheets.

4.07 The "Term. Type" column directly under the pedestal numbers may be MF pole, HA, etc., for terminal type on aerial cable and BD2, etc., for Where two pedestal housings are required for space, they are shown as 2BD

4.08 The next step is to show by symbol the end section of each loop, fill in the double line to show only the exact pedestal or pedestals the loop has been engineered to serve. The selected pairs are included in the home count for the distribution area. The open circles should be drawn to show the allocation of the cable pair to a specific pedestal or pedestals to serve one or more establishments listed and associated with the pedestal or pedestals. The circles are filled in solid with pencil when the pair is actually placed in service. In allocating loaded pairs, caution should be exercised in keeping end-section lengths within the transmission limits as set forth in TE & CM Section 424, "Design of Subscriber Loop Plant." When the pedestal section footage figures have been posted on the Outside Plant Facility Record, each loop end section should be checked, and if transmission criteria have not been met, necessary adjustments must be made. Any such miscalculations will appear at this stage, and they should be immediately noted and necessary corrections made.

4.09 For multiparty exchanges, the line equipment number is controlling, and at time of final assignment is posted in the column "TEL. OR CIRCUIT NUMBER." For one-party exchanges, the four digit connector terminal number is controlling and is entered in this column.

4.10 Main frame bridging of cable pairs is posted to the appropriate cable pair on the Legend and Notes sheets. Load coil size and other similar information not covered by symbol on the Outside Plant Facility Record is also posted on the Legend and Notes sheet.

5. CENTRAL OFFICE FACILITY RECORD (EXAMPLE - Sheets 9 and 10)

5.1 The central office facility record is designed to replace the line and station card, and is sized to be an integral part of the overall exchange packet. The information contained thereon is keyed to the connector terminal numbers. The sheet is printed on both sides thereby providing space for recording 200 connector terminal assignments on each sheet. The size is $5\frac{1}{2}$ " x 14".

5.2 For operational purposes, where a telephone number (connector terminal number) is provided, such as on a trouble ticket, the cross reference is from connector terminal number to cable pair.

5.3 The column headed "Station Apparatus" is also used for recording special equipment such as transmitting amplifiers, key sets (wiring plans), extension bells, etc.

5.4 The trouble record portion of the present line and station card is replaced by filing the trouble tickets as set forth in TOM Section 1238, "Trouble Reporting."

5.5 In making the initial and subsequent connector terminal assignments, care should be taken to comply with the traffic considerations in TE & CM Section 221, "Assignment of Line and Station Numbers," (Terminal Per Station Systems).

6. LINE EQUIPMENT RECORD (EXAMPLE - Sheets 11 and 12)

6.1 This form is cross-referenced to the Outside Plant Facility Record through the connector terminal numbers. The class of service does not appear elsewhere on these record forms.

6.2 The bunching block record is made a part of this form. The numbering system for bunching blocks differs with the type and make of C.O.E. and, therefore, must be obtained by the engineer from the manufacturers.

6.3 Where all one-party service is offered, the bunching block record would not be required; the line equipment record would become only a record of line equipment assigned and available, and the connector terminal numbers on the central office facility record would become all controlling for record purposes.

51.53, 63.65, 76.78
51.64, 68.86

A4B-

30

- 188

A3F -

四

PR 167 ^{NOTE 3} has one LA carrier Update with Auto. stop mounted in pedestal A2A4.

NOTE 4: Pedestrian AIA - and ASA - back have accommodated back.

NOTE 5: There are four (4) each 4 inch than
C.O. and inhouse A-Al. Windows 1, 2
white window No. 4 is vacant.

NOTE: The HAB terminal as shown at A5B3 is installed at the south end of a 40 foot aerial insect over Deer Creek.

NOTE 7: This sheet is to be used as required and inserted into the record binder as suits the occasion.

TE & CM - 116
EXAMPLE - PAGE 2

•A7A5
•A7A4
•A7A3
•A7A2
•A7A1
A7A-

LEGEND & NOTES

NUMBERING SYSTEM

CABLE (LETTER) A A A

CONTROL POINT (NUMBER) 1

ROUTE (LETTER) A

SECTION PEDESTAL OR TERMINAL (NUMBER) 1

ESTABLISHMENT NUMBERS

MAP NUMBER 10

BLC. K NUMBER 63

MAPS HIGHER NUMBER 12

CABLE PAIR - IN ITS USAGE AREA
ALLOCATED PAIR
ASSIGNED PAIR

TEMPORARY PAIR ASSIGNMENT
PAIR CUT DEAD
CONTROL POINT

LOADING AT CONTROL POINT
CARRIER FILTER
IDENTIFYING
46-48
(BPR, DEAD)
DEAD PAIRS

STANDARD GROUP COLOR CODE - CABLE AND MPD WIRE
OPEN WIRE PIN POSITIONS
7
8

1	WHITE	BLACK	11	BLACK	12	BLACK	13	BLACK	14	BLACK	15	BLACK	16	BLACK	17	BLACK	18	BLACK	19	BLACK	20	BLACK	21	BLACK	22	BLACK	23	BLACK	24	BLACK	25	BLACK																																																				
2	WHITE	ORANGE	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																																
3	WHITE	GREEN	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																												
4	WHITE	BROWN	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																										
5	WHITE	SLATE	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																								
6	WHITE	SLATE	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED	1	RED	2	RED	3	RED	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED
7	WHITE	SLATE	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED	1	RED	2	RED	3	RED	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED										
8	WHITE	SLATE	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED	1	RED	2	RED	3	RED	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																		
9	WHITE	SLATE	24	RED	25	RED	1	RED	2	RED	3	RED	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																												
10	WHITE	SLATE	25	RED	1	RED	2	RED	3	RED	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																														
11	WHITE	SLATE	1	RED	2	RED	3	RED	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																
12	WHITE	SLATE	2	RED	3	RED	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																		
13	WHITE	SLATE	3	RED	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																				
14	WHITE	SLATE	4	RED	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																						
15	WHITE	SLATE	5	RED	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																								
16	WHITE	SLATE	6	RED	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																										
17	WHITE	SLATE	7	RED	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																												
18	WHITE	SLATE	8	RED	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																														
19	WHITE	SLATE	9	RED	10	RED	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																																
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21	WHITE	SLATE	11	RED	12	RED	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																																				
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23	WHITE	SLATE	13	RED	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																																								
24	WHITE	SLATE	14	RED	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																																										
25	WHITE	SLATE	15	RED	16	RED	17	RED	18	RED	19	RED	20	RED	21	RED	22	RED	23	RED	24	RED	25	RED																																																												

NOTE 1: *Following are some typical entries for this sheet. However, there is no set rule for any specific entry.*

NOTE 2: *The loading for cable A, the type of loading units and*

the space code are as follows:

1. Loading units

2. Space code

3. Space coils

4. B6 units

5. B6 coils

6. B6 space

7. B6 space code

8. B6 space units

9. B6 space coils

10. B6 space space

11. B6 space space code

12. B6 space space units

13. B6 space space coils

14. B6 space space space

15. B6 space space space code

16. B6 space space space units

17. B6 space space space coils

18. B6 space space space space

19. B6 space space space space code

20. B6 space space space space units

21. B6 space space space space coils

22. B6 space space space space space

23. B6 space space space space space code

24. B6 space space space space space units

25. B6 space space space space space coils

26. B6 space space space space space space

27. B6 space space space space space space code

28. B6 space space space space space space units

29. B6 space space space space space space coils

30. B6 space space space space space space space

31. B6 space space space space space space space code

32. B6 space space space space space space space units

33. B6 space space space space space space space coils

34. B6 space space space space space space space space

35. B6 space space space space space space space space code

36. B6 space space space space space space space space units

37. B6 space space space space space space space space coils

38. B6 space space space space space space space space space

39. B6 space space space space space space space space space code

40. B6 space space space space space space space space space units

41. B6 space space space space space space space space space coils

42. B6 space space space space space space space space space space

43. B6 space code

44. B6 space units

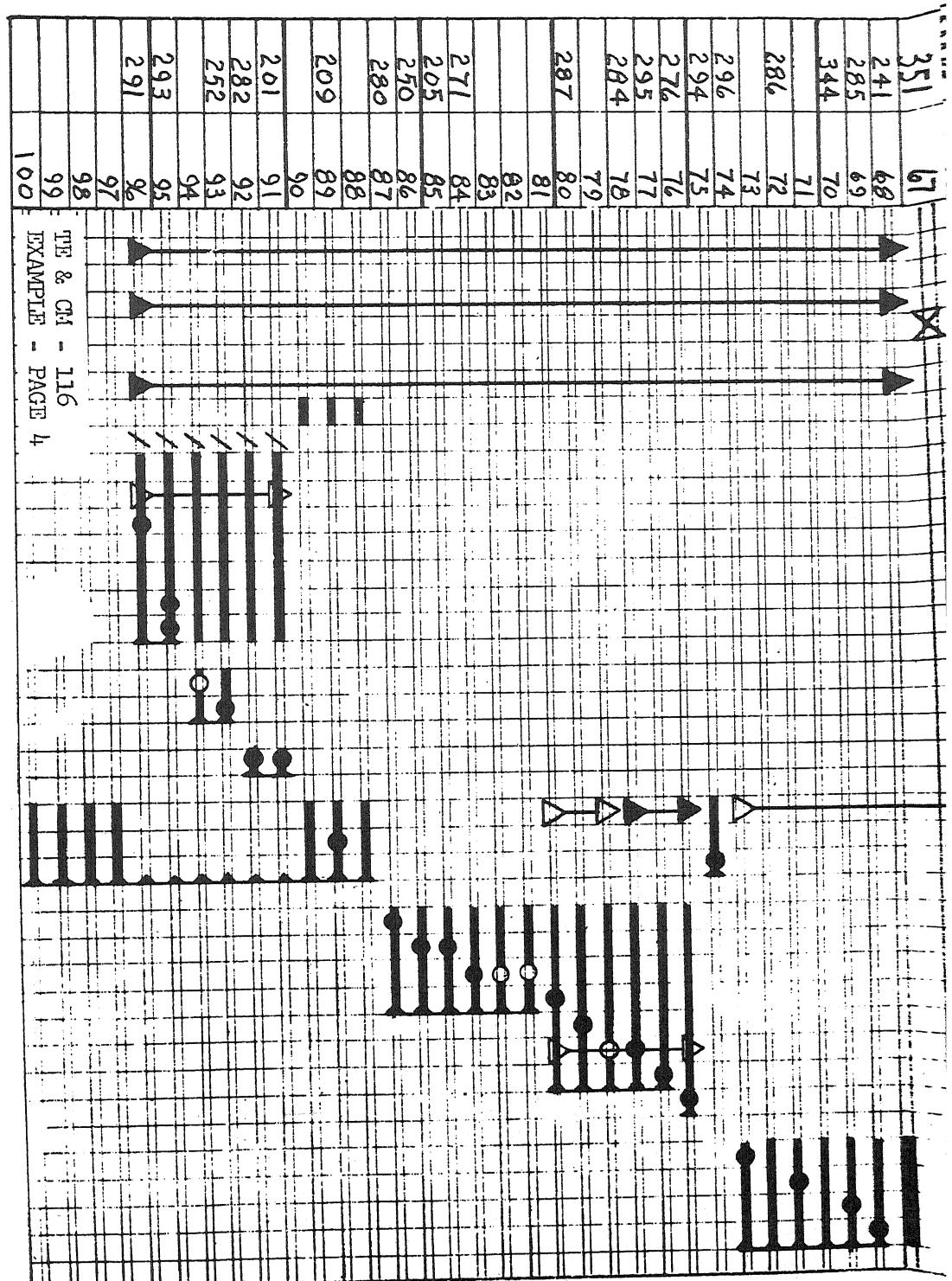
45. B6 space coils

46. B6 space space

47. B6 space code

48. B6 space units

OUTSIDE PLANT FACILITY RECORD				
OFFICE	CABLE COUNT	SHEET COUNT	SHEET NUMBER	CABLE
262	1-150	101-150	1 OF 5	A
28				
31	13-73-13			
9				
10				
25				
SHMENT NUMBERS				
13-73-37				



OUTSIDE PLANT FACILITY REGARDING

262 1-150 51-100 2 OF 5 A
OFFICE CABLE COUNT CO.

OUTSIDE PLANT FACILITY RECORD				
PLANT FACILITY LAYOUT	ESTABLISHMENT NUMBERS	OFFICE	CABLE COUNT	SHEET COUNT
ED15024P	1-150	51-100	2 of 5	A
1-100				
ED15024P	10-73-13	BJ6-24P	2	
1-100	10-73-14	91-96	2	
ED15024P	10-73-16	BL5-24P	2	
1-100	10-73-37	51-100	2	
ED15024P	10-73-17	610	2	
1-100	10-73-20	580	2	
ED15024P	10-73-18, 38	1022	2	
1-100	10-73-40	3650	2	
ED15024P	10-73-3	550	2	
1-100	10-63-43	580	2	
ED15024P	10-63-32, 53, 47	560	2	
1-100	10-63-50, 51, 52	570	2	
ED15024P	10-63-23	545	2	
1-100	10-63-79	548	2	
ED15024P	10-63-74, 75	560	2	
1-100	10-63-72	520	2	
ED15024P	10-63-71	530	2	
1-100	10-63-4	511	2	
ED15024P	10-73-6	910	2	
1-100	10-73-8, 10	870	2	
ED15024P	10-73-11	890	2	
1-100		860	2	

OUTSIDE PLANT FACILITY RECORD

262 | 1-150

1 = 50 14
51

A

OUTSIDE PLANT FACILITY RECORD

262 1-150 19-36 5 OF 5 A
OFFICE CABLE COUNT SHEET COUNT SHEET NUMBER CABLE

ISHMEN T NUMBERS

02

A large sheet of graph paper with a grid pattern of thin lines. In the top-left corner, there is a vertical column of text. The text reads:

TE & CM - 116
EXAMPLE - PAGE 8

OUTSIDE PLANT FACILITY RECORD

				OF	
	OFFICE	CABLE COUNT	SHEET COUNT	SHEET NUMBER	CABLE
ESTABLISHMENT NUMBERS					
PLANT FACILITY LAYOUT					
PEDESTAL SECTION FEET					
CONTROL POINT KF					
SECTION PED. NO. ..					
ROUTE LETTER					
CONTROL POINT NO.					
CABLE LETTER					
TEL. OR CIRCUIT NUMBER					
TERM. TYPE					
CABLE PAIR					

CENTRAL OFFICE FACILITY RECORD

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EXAMPLE - PAGE 10

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EXAMPLE - PAGE 10

CONN. TERM. EQ. NO.	LINE PAIR	CABLE NUMBER	PEDESTAL BLK	BU NUMBER	ESTAB. NUMBER	STATION APPARATUS	CONN. TERM. EQ. NO.	LINE PAIR	CABLE NUMBER	PEDESTAL BLK	BU NUMBER	ESTAB. NUMBER	STATION APPARATUS
50						00						00	
59						09							
58						08							
57						07							
56						06							
55	271	84	A4D3	1-1	10-63-5a	1-S1						105	
54												04	
53												03	
52	295	77	A5D1	-	10-63-71	1-S1						02	
51	385	62	A4B3	-	10-73-44	1-S1						01	
40												90	
49	209	89	A4B1	-	10-73-40	1-S1						99	
48												98	
47	276	76	A5D2	-	10-63-71	2-S1						97	
46	204	61	A4B4	-	10-63-17	1-S1						96	
45												95	
44												94	
43	294	75	A4B2	-	10-73-3	1-S1, 1-S3						93	
42	362	59	A4B6	-	10-63-2	1-S1						92	
41	350	86	A4B1	-	10-63-2	1-S1						91	
40	276	75	A4P-	-	10-63-6	1-S1						90	
39	364	74	A4P1	-	10-63-4	1-S1						89	
38	364	74	A4P1	-	10-63-4	1-S1						88	
37	364	74	A4P1	-	10-63-4	1-S1						87	
36	364	74	A4P1	-	10-63-4	1-S1						86	
35	364	74	A4P1	-	10-63-4	1-S1						85	
34	364	74	A4P1	-	10-63-4	1-S1						84	
33	364	74	A4P1	-	10-63-4	1-S1						83	
32	364	74	A4P1	-	10-63-4	1-S1						82	
31	364	74	A4P1	-	10-63-4	1-S1						81	
30	364	74	A4P1	-	10-63-4	1-S1						80	
29	364	74	A4P1	-	10-63-4	1-S1						79	
28	364	74	A4P1	-	10-63-4	1-S1						78	
27	364	74	A4P1	-	10-63-4	1-S1						77	
26	364	74	A4P1	-	10-63-4	1-S1						76	
25	364	74	A4P1	-	10-63-4	1-S1						75	
24	364	74	A4P1	-	10-63-4	1-S1						74	
23	364	74	A4P1	-	10-63-4	1-S1						73	
22	364	74	A4P1	-	10-63-4	1-S1						72	
21	364	74	A4P1	-	10-63-4	1-S1						71	
20	364	74	A4P1	-	10-63-4	1-S1						70	
19	364	74	A4P1	-	10-63-4	1-S1						69	
18	364	74	A4P1	-	10-63-4	1-S1						68	
17	364	74	A4P1	-	10-63-4	1-S1						67	
16	364	74	A4P1	-	10-63-4	1-S1						66	
15	364	74	A4P1	-	10-63-4	1-S1						65	
14	364	74	A4P1	-	10-63-4	1-S1						64	
13	364	74	A4P1	-	10-63-4	1-S1						63	
12	364	74	A4P1	-	10-63-4	1-S1						62	
11	364	74	A4P1	-	10-63-4	1-S1						61	
10	364	74	A4P1	-	10-63-4	1-S1						60	
9	364	74	A4P1	-	10-63-4	1-S1						59	
8	364	74	A4P1	-	10-63-4	1-S1						58	
7	364	74	A4P1	-	10-63-4	1-S1						57	
6	364	74	A4P1	-	10-63-4	1-S1						56	
5	364	74	A4P1	-	10-63-4	1-S1						55	
4	364	74	A4P1	-	10-63-4	1-S1						54	
3	364	74	A4P1	-	10-63-4	1-S1						53	
2	364	74	A4P1	-	10-63-4	1-S1						52	
1	364	74	A4P1	-	10-63-4	1-S1						51	
0	364	74	A4P1	-	10-63-4	1-S1						50	

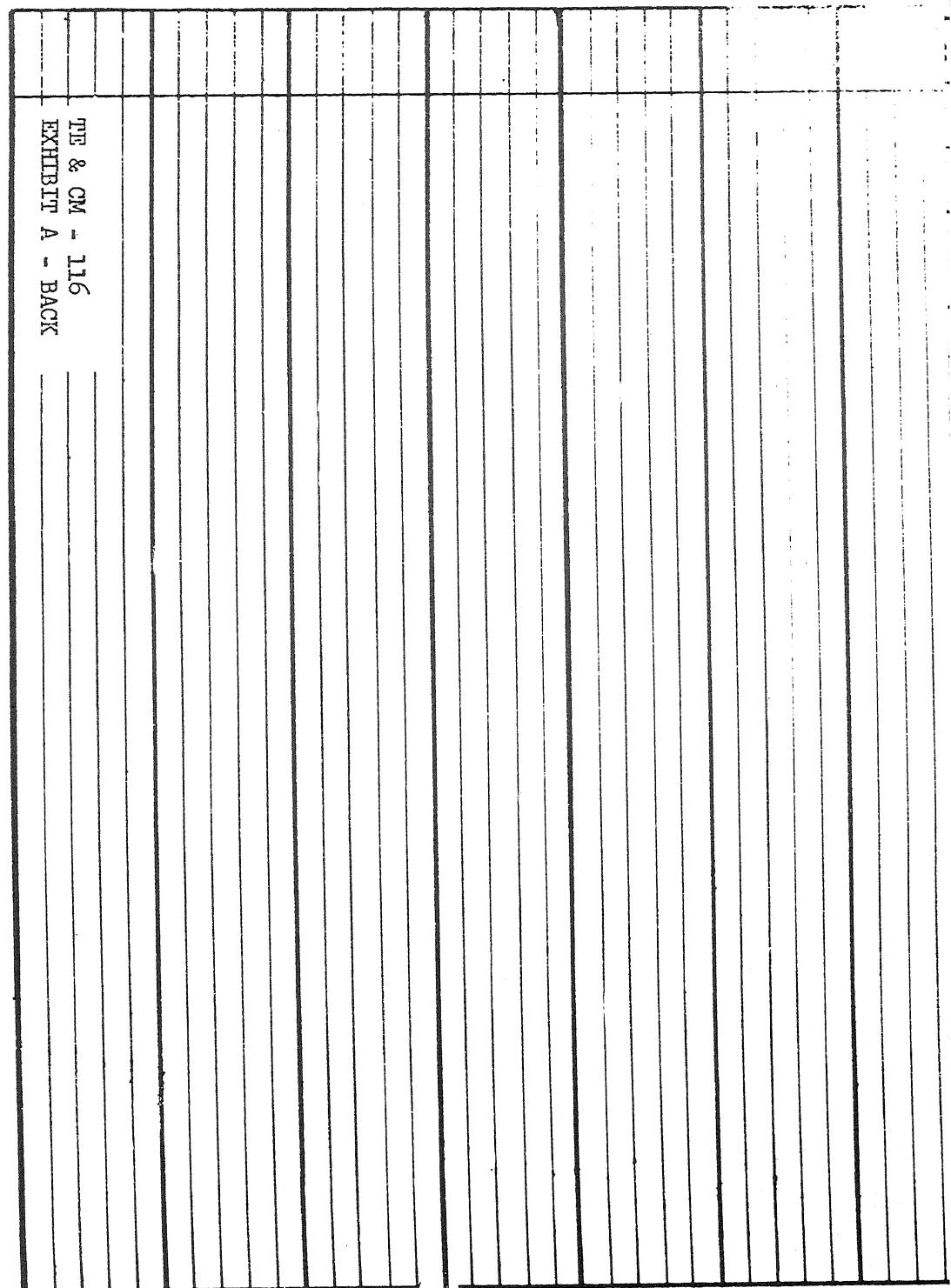
BUNCH BLOCK DATA

2-1	364	2-5	
2-2	344	2-6	
2-3	2-7		
2-4	2-8		

ENTRIES REPRESENT ONLY THOSE STATIONS FROM CABLE A NOT
THIS SHEET

ASSIGNED TO THE 200 GROUP.
TE & CM - 116
EXAMPLE - PAGE 12

OUTSIDE PLANT LINE CONNECTION DIAGRAM



OUTSIDE PLANT FACILITY RECORD

A large grid of horizontal and vertical lines, resembling graph paper or a ledger, covering the majority of the page. The grid is bounded by a thick black border. In the top-left corner, there is a vertical column of text.

OUTSIDE PLANT FACILITY RECORD

CENTRAL OFFICE FACILITY RECORD

OFFICE	CENTRAL OFFICE FACILITY RECORD								GROUP				
	CONN. TERM	LINE E.G., NO.	CABLE PAIR	PEDESTAL NUMBER	BU BLK	STATION APPARATUS	CONN. TERM	LINE E.Q. NO.	CABLE PAIR	PEDESTAL NUMBER	BU BLK	ESTAB. NUMBER	STATION APPARATUS
5U										00			
59										09			
58											08		

33			
31	81		82
20	70		
29	79		
28	78		
27	77		
26	76		
25	75		
24	74		
23	73		
22	72		
21	71		
10	60		
19	69		
18	68		
17	67		
16	66		
15	65		
14	64		
13	63		
12	62		
11	61		
TE & CM - 116			
EXHIBIT C - BACK			

OFFICE

CENTRAL OFFICE FACILITY RECORD

GROUP

OFFICE	CONN. TERM	LINE EQ.NO.	CABLE PAIR	PEDESTAL NUMBER	BU BLK	ESTAB. NUMBER	STATION APPARATUS	CONN. TERM	LINE EQ.NO.	CABLE PAIR	PEDESTAL NUMBER	BU BLK	ESTAB. NUMBER	STATION APPARATUS	
50						00		59					09		
59								58					08		
58								57					07		
57								56					06		
56								55					05		
55								54					04		
54								53					03		
53								52					02		
52								51					01		
51								40					90		
40								49					99		
49								48					98		
48								47					97		
47								46					96		
46								45					95		
45								44					94		
44								43					93		
43								42					92		
42								41					91		
41								39					80		
39								38					89		
38								37					88		
37								36					87		
36								35					86		
35								34					85		
34													84		

BUNCH BLOCK DATA

CLASS	B 1	B 2	B 4	B R	R 1	R 2	R 4	R R	P S	P BX
ALLOTTED THIS GROUP										
ASSIGNED THIS GROUP										

NOTES:

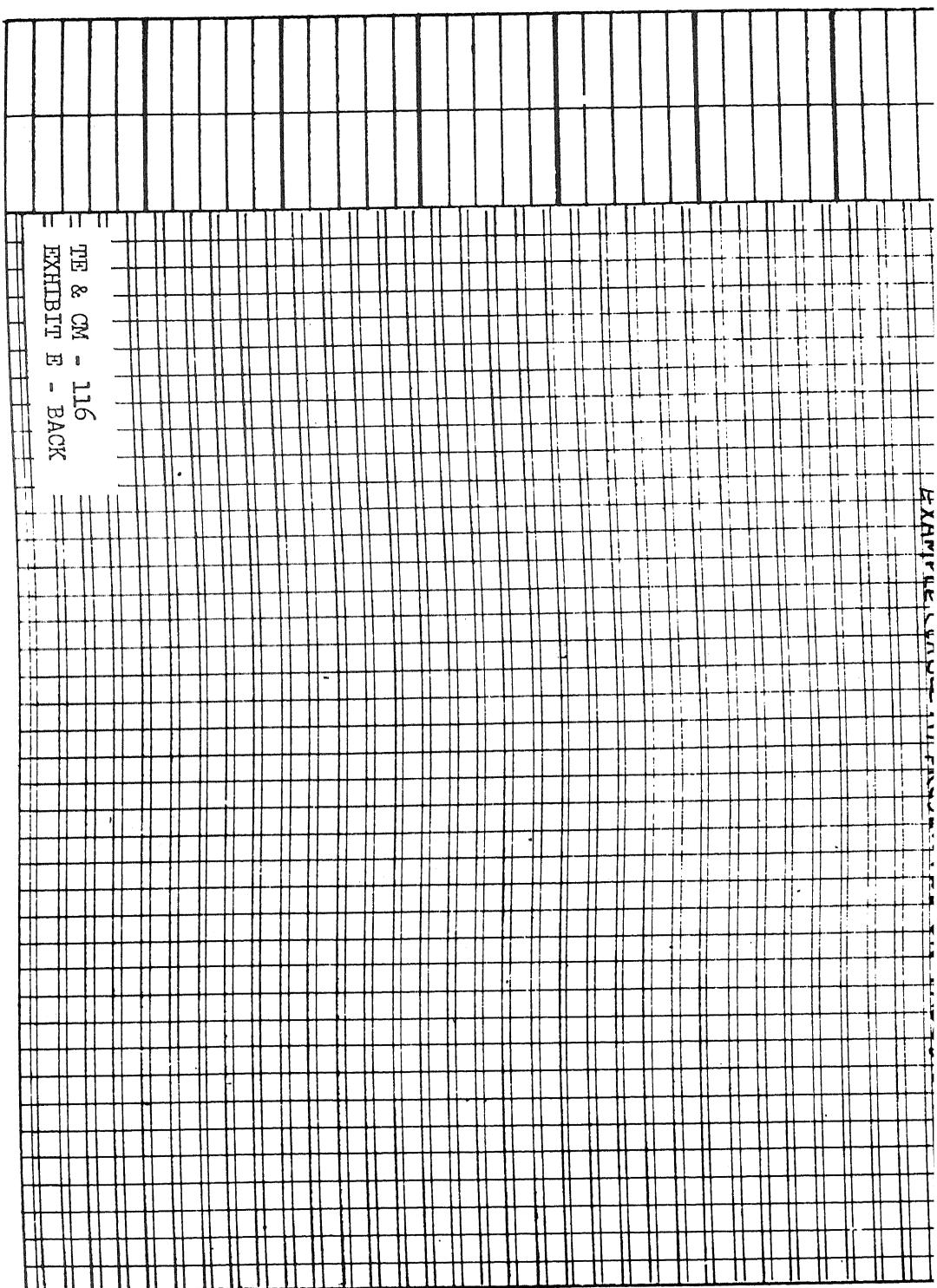
TE & CM - 116
EXHIBIT D - BACK

NOTES:

TE & CM - 116
EXHIBIT D - BACK

LINE EQUIPMENT RECORD

OFFICE	LINE EQUI. INT RECORD										GROUP
	10	20	30	40	50	60	70	80	90	00	
19	29	39	49	59	69	79	89	99	09		
18	28	38	48	58	68	78	88	98	08		
17	27	37	47	57	67	77	87	97	07		
16	26	36	46	56	66	76	86	96	06		
15	25	35	45	55	65	75	85	95	05		
14	24	34	44	54	64	74	84	94	04		
13	23	33	43	53	63	73	83	93			



OUTSIDE PLANT FACILITY RECORD

OPEN WIRE APPLICATION

		OUTSIDE PLANT FACILITY RECORD	OFFICE	CABLE COUNT	SHEET COUNT	SHEET NUMBER	OF	CABLE
OPEN WIRE APPLICATION								
		PLANT FACILITY LAYOUT			ESTABLISHMENT NUMBERS			
PEDESTAL SECTION FEET	CONTROL POINT KF	SECTION PED. NO. ..	ROUTE LETTER	CONTROL POINT NO.	CABLE LETTER	TEL. OR CIRCUIT NUMBER	TERM. TYPE CABLE PAIR	OF
		B12	B	5	B	5	B	530
		* 2	B	5	B	6	B	602
		" 2	B	5	B	7	B	510
		" 2	B	6	B	7	B	460
		" 2	B	6	B	7	B	198
		" 2	B	6	B	7	B	210
		" 2	B	6	B	7	B	612
		" 2	B	6	B	7	B	1020
		" 2	B	6	B	7	B	212
		" 2	B	6	B	7	B	997
		" 2	B	6	B	7	B	1070
		" 2	B	6	B	7	B	1031
		" 2	B	6	B	7	B	992
		" 2	B	6	B	7	B	420
		" 2	B	6	B	7	B	410
		" 2	B	6	B	7	B	202
		" 2	B	6	B	7	B	412
		" 2	B	6	B	7	B	1006
		" 2	B	6	B	7	B	420
		" 2	B	6	B	7	B	200
		" 2	B	6	B	7	B	410
		" 2	B	6	B	7	B	1006
		" 2	B	6	B	7	B	206
		" 2	B	6	B	7	B	1060
		" 2	B	6	B	7	B	810
		" 2	B	6	B	7	B	198
		" 2	B	6	B	7	B	1002
		" 2	B	6	B	7	B	412
		" 2	B	6	B	7	B	602
		" 2	B	6	B	7	B	250
		" 2	B	6	B	7	B	1000
		" 2	B	6	B	7	B	610
		" 2	B	6	B	7	B	810

NOTE: THIS EXAMPLE IS IN NO WAY RELATED TO THE